ATENT COOPERATION TREAT

From the INTERNATIONAL BUREAU **PCT** Commissioner **NOTIFICATION OF ELECTION US Department of Commerce** United States Patent and Trademark (PCT Rul_ 61.2) Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 **ETATS-UNIS D'AMERIQUE** Date of mailing (day/month/year) in its capacity as elected Office 21 May 2001 (21.05.01) International application No. Applicant's or agent's file reference PCT/EP00/08284 M/40229-PCT International filing date (day/month/year) Priority date (day/month/year) 24 August 2000 (24.08.00) 25 August 1999 (25.08.99) **Applicant** JAWOREK, Thomas et al 1. The designated Office is hereby notified of its election made: in the demand filed with the International Preliminary Examining Authority on: 08 March 2001 (08.03.01) in a notice effecting later election filed with the International Bureau on: 2. The election was not made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Pascal Piriou

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PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

KINZEBACH, Werner...

Reitstötter, Kinzebach & Parther atte Sternwartstrassellsfötter, Kinzebach & Part.

81679 München ALLEMAGNE ^{Eing}.

12. März 2001

Sternwartstr. 4

D-81633 Müncher

Date of mailing (day/month/year)

01 March 2001 (01.03.01)

Applicant's or agent's file reference

M/40229-PCT

IMPORTANT NOTICE

International application No. PCT/EP00/08284

International filing date (day/month/year) 24 August 2000 (24.08.00)

Priority date (day/month/year)
25 August 1999 (25.08.99)

Applicant

BASF AKTIENGESELLSCHAFT et al

Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application
to the following designated Offices on the date indicated above as the date of mailing of this Notice:
KR.US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

BR,CA,CN,EP,JP

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 01 March 2001 (01.03.01) under No. WO 01/14483

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 G neva 20, Switzerland Authorized officer

J. Zahra

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38

Continuati n f Form PCT/IB/308

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

Date of mailing (day/month/year) 01 March 2001 (01.03.01)			IMPORTANT NOTICE		
Applicant's or ager M/40229-PC			International application PCT/EP00/08284		
mendments unde	hereby notified that, at r Article 19 has not yet a applicant does not wis	expired and the Inte	nment of this Notice, the time mational Bureau had receive ents.	e limit under Rule 46.1 fo d neither such amendm	or making ents nor a
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PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

KINZEBACH, Werner Reitstötter, Kinzebach & Partner Sternwartstrasse 4

81679 München ALLEMAGNE

Date of mailing (day/month/year) 08 November 2000 (08.11.00)	
Applicant's or agent's file reference M/40229-PCT	IMPORTANT NOTIFICATION
International application No. PCT/EP00/08284	International filing date (day/month/year) 24 August 2000 (24.08.00)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 25 August 1999 (25.08.99)
Applicant BASF AKTIENGESELLSCHAFT et al	

- 1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date Priority application No.

Country or regional Office or PCT receiving Office

Date of receipt of priority document

25 Augu 1999 (25.08.99)

199 40 312.0

DE

30 Octo 2000 (30.10.00)

The International Bureau f WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Elisabeth KÖNIG

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		tionofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)		
M/40229-PCT International application No.	International filing date (day/r		Priority date (day/month/year)		
PCT/EP00/08284	24 August 2000 (24.		25 August 1999 (25.08.99)		
International Patent Classification (IPC) or n C09D 175/16	lational classification and IPC				
Applicant	BASF AKTIENGESELI	LSCHAFT			
This international preliminary exam and is transmitted to the applicant at This REPORT consists of a total of	ccording to Article 36.		national Preliminary Examining Authority		
amended and are the basis fo 70.16 and Section 607 of the	ied by ANNEXES, i.e., sheets of this report and/or sheets contain Administrative Instructions under the first of sheets.	ining rectifica	on, claims and/or drawings which have been tions made before this Authority (see Rule		
3. This report contains indications relating to the following items:					
I Basis of the report					
II Priority					
III Non-establishment o	of opinion with regard to novelty	y, inventive st	ep and industrial applicability		
IV Lack of unity of inv	ention				
V Reasoned statement citations and explan	under Article 35(2) with regard ations supporting such statemen	to novelty, in	ventive step or industrial applicability;		
VI Certain documents of	cited				
VII Certain defects in th	e international application				
<u> </u>					
Date of submission of the demand	Date o	f completion o	of this report		
08 March 2001 (08.03	08 March 2001 (08.03.01) 21 November 2001 (21.11.2001)				
Name and mailing address of the IPEA/EP	Author	rized officer			
Facsimile No.		Telephone No.			

Form PCT/IPEA/409 (cover sheet) (July 1998)

Translation

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/EP00/08284

	. Basis of	f the report	
the description: pages	. With re	gard to the elements of the international application:*	
pages	L t	the international application as originally filed	
pages	⊠ t	the description:	
pages	F	pages 1-22	, as originally filed
the claims: pages	ŗ	pages	, filed with the demand
the claims: pages pages , as amended (together with any statement under Articl pages , filed with the letter of the drawings: pages , filed with the letter of the drawings: pages , filed with the letter of the sequence listing part of the description: pages , filed with the letter of the sequence listing part of the description: pages , filed with the letter of the sequence listing part of the description: pages , filed with the letter of with regard to the language, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 33.0(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 23.1(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 23.1(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 23.1(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 48.3(b)). The statement that the subsequently in written form. furnished subsequently to this Authority in computer readable form. furnished subsequently to this Authority in computer readable form. furnished subsequently to this Authority in computer readable form is identical to the written sequence listing been furnished. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in international application as filed has been furnished. The amendments have resulted in the cancellation of: the description pages the claims, Nos. th	ŗ	pages, fil	ed with the letter of
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•	in this	report as "originally filed" and are not annexed to this rep	n response to an invitation under Article 14 are referred to port since they do not contain amendments (Rule 70.16
		•	under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ernational application No.
PCT/EP 00/08284

NO

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			ability;	
1.	· Statement			
	Novelty (N)	Claims	2,3,5-7	YES
		Claims	1,4,8,9	NO
	Inventive step (IS)	Claims		YES
		Claims	1-9	NO
	Industrial applicability (IA)	Claims	1-9	YES

2. Citations and explanations

The present invention

The present invention relates to a method for producing scratch-resistant coatings, which involves the following steps:

(i) application of a coating agent to an object to be coated and

Claims

(ii) curing the coated object with UV radiation in a protective gas containing oxygen and having a partial oxygen pressure of 0.2 - 18 kPa (2200 ppm - 20 vol%, page 4, paragraph 2 of the present application), the coating agent containing at least one polymer and/or oligomer with at least one ethylenically unsaturated double bond in the agent per molecule.

Citations

This report makes reference to the following documents:

- D1 DATABASE WPI Week 8842 Derwent Publications Ltd.,
 London, GB: AN 1988-295328 XP002157086
 "Anticorrosion UV-curing resin coating on metallic
 base material" & JP-A-63 214375 (SUMITOMO METAL), 7
 September 1988 (1988-09-07)
- D2 DE-A-29 28 512 (RÖHM) 29 January 1981 (1981-01-29).

Novelty (PCT Article 33(2))

PCT/EP 00/08284

- D1 (abstract) describes the production of coatings on metal surfaces. The method involves
- (i) the application of a coating agent to the substrate to be coated and
- (ii) curing the coating with UV radiation in an inert gas atmosphere with an oxygen concentration of up to 0.5 vol.%.

The coating agent is, for example, polyurethane (meth) acrylate.

D1 therefore anticipates the subject matter of Claims 1, 4, 8 and 9.

Inventive step (PCT Article 33(3))

- D2 describes a method for producing a scratch-resistant coating that involves the following steps:
- (i) application of a radically polymerisable monomer with at least two double bonds on one moulded body and(ii) curing the coated body with UV radiation in a low-oxygen protective gas atmosphere (Claims 1 and 10 from

The present invention thus differs from D2 only in that oligomers or polymers are applied in the form of a coating agent to the object to be coated, whereas in D2 the corresponding monomers, such as trimethylolpropanacrylate (page 7, lines 11 to 12 from D2) are used that first polymerise at the moment of curing.

The problem to be solved by the present application can therefore be considered to be that of preparing scratch-resistant coatings. However, this problem is already solved in D2. Consequently, the objective problem in relation to D2 is one of providing alternative coating agents for the coating process. However, the alternative

D2).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ernational application No.
PCT/EP 00/08284

selected in the present application is already known from D1, in which apart from the monomers mentioned in D2 polymers with double bonds are described as coating agents. The present application is therefore not inventive in relation to D2 in combination with D1.

VERTRAG ÜBER DIE INTERNATIONALE ZUSÄMMENARBEIT AUF DEM GEBIET DES PATENTWESENS

PCT

REC'D 2 3 NOV 2001

INTERNATIONALER VORLÄUFIGER PRÜFUNGSBERICHT

(Artikel 36 und Regel 70 PCT)

Aktenzeichen des Anmelders oder Anwalts					
M/40229-PCT	weiteres vorgeten siehe Mitteilung über die Übersendung des international vorläufigen Prüfungsberichts (Formblatt PCT/IPEA/416)				
Internationales Aktenzeichen	Internationales Anmeldedatum(Tag/Monat/Jahr) Prioritätsdatum (Tag/Monat/Tag)				
PCT/EP00/08284 24/08/2000 25/08/1999					
Internationale Patentklassifikation (IPK) ode C09D175/16	Internationale Patentklassifikation (IPK) oder nationale Klassifikation und IPK C09D175/16				
Anmelder BASF AKTIENGESELLSCHAFT					
	üfungsbericht wurde von der mit der internationalen vorläufigen Prüfung beauftragter nelder gemäß Artikel 36 übermittelt.				
2. Dieser BERICHT umfaßt insgesan	nt 5 Blätter einschließlich dieses Deckblatts.				
und/oder Zeichnungen, die ge	ANLAGEN bei; dabei handelt es sich um Blätter mit Beschreibungen, Ansprüchen ändert wurden und diesem Bericht zugrunde liegen, und/oder Blätter mit vor dieser richtigungen (siehe Regel 70.16 und Abschnitt 607 der Verwaltungsrichtlinien zum Po				
Diese Anlagen umfassen insgesar	nt Blätter.				
					
3. Dieser Bericht enthält Angaben zu	folgenden Punkten:				
I ⊠ Grundlage des Berichts					
II Priorität					
III 🔲 Keine Erstellung eines	Gutachtens über Neuheit, erfinderische Tätigkeit und gewerbliche Anwendbarkeit				
IV 🔲 Mangelnde Einheitlich	keit der Erfindung				
	ng nach Artikel 35(2) hinsichtlich der Neuheit, der erfinderischen Tätigkeit und der barkeit; Unterlagen und Erklärungen zur Stützung dieser Feststellung				
VI 🛚 Bestimmte angeführte	Unterlagen				
VII 🔲 Bestimmte Mängel der	internationalen Anmeldung				
VIII 🗆 Bestimmte Bemerkung	gen zur internationalen Anmeldung				
Datum der Einreichung des Antrags	Datum der Einreichung des Antrags Datum der Fertigstellung dieses Berichts				
08/03/2001 21.11.2001					
Name und Postanschrift der mit der internation Prüfung beauftragten Behörde:	onalen vorläufigen Bevollmächtigter Bediensteter				
Europäisches Patentamt D-80298 München Tel. +49 89 2399 - 0 Tx: 52365	Müller, M				
Fax: +49 89 2399 - 4465	Fax: +49 89 2399 - 4465 Tel. Nr. +49 89 2399 8665				

INTERNATIONALER VORLÄUFIGER PRÜFUNGSBERICHT

Internationales Aktenzeichen PCT/EP00/08284

I.	Grundlage des Berichts
1.	Hinsichtlich der Bestandteile der internationalen Anmeldung (<i>Ersatzblätter, die dem Anmeldeamt auf eine Aufforderung nach Artikel 14 hin vorgelegt wurden, gelten im Rahmen dieses Berichts als "ursprünglich eingereicht" und sind ihm nicht beigefügt, weil sie keine Änderungen enthalten (Regeln 70.16 und 70.17)):</i>
	December Delton.

		ingereicht" und sind ihm nicht beigefügt, weil sie keine Anderungen enthalten (Hegeln 70.16 und 70.17)): eschreibung, Seiten:		
	1-2	2	ursprüngliche Fassung	
	Pat	tentansprüche, Nr.:	•	
	1-9		ursprüngliche Fassung	
2.	die	internationale Anme	ne: Alle vorstehend genannten Bestandteile standen der Behörde in der Sprache, in der eldung eingereicht worden ist, zur Verfügung oder wurden in dieser eingereicht, sofern hts anderes angegeben ist.	
	Die		en der Behörde in der Sprache: zur Verfügung bzw. wurden in dieser Sprache	
		die Sprache der Ül Regel 23.1(b)).	persetzung, die für die Zwecke der internationalen Recherche eingereicht worden ist (nach	
		die Veröffentlichun	gssprache der internationalen Anmeldung (nach Regel 48.3(b)).	
		die Sprache der Üt ist (nach Regel 55.	oersetzung, die für die Zwecke der internationalen vorläufigen Prüfung eingereicht worden 2 und/oder 55.3).	
3.			nternationalen Anmeldung offenbarten Nucleotid- und/oder Aminosäuresequenz ist die e Prüfung auf der Grundlage des Sequenzprotokolls durchgeführt worden, das:	
		in der international	en Anmeldung in schriftlicher Form enthalten ist.	
		zusammen mit der	internationalen Anmeldung in computerlesbarer Form eingereicht worden ist.	
		bei der Behörde na	achträglich in schriftlicher Form eingereicht worden ist.	
		bei der Behörde na	chträglich in computerlesbarer Form eingereicht worden ist.	
			das nachträglich eingereichte schriftliche Sequenzprotokoll nicht über den It der internationalen Anmeldung im Anmeldezeitpunkt hinausgeht, wurde vorgelegt.	
		•	die in computerlesbarer Form erfassten Informationen dem schriftlichen entsprechen, wurde vorgelegt.	
4.	Auf	grund der Änderung	en sind folgende Unterlagen fortgefallen:	
		Beschreibung,	Seiten:	
		Ansprüche,	Nr.:	
		Zeichnungen,	Blatt:	

INTERNATIONALER VORLÄUFIGER PRÜFUNGSBERICHT

Internationales Aktenzeichen PCT/EP00/08284

5. Dieser Bericht ist ohne Berücksichtigung (von einigen) der Änderungen erstellt worden, da diese aus den angegebenen Gründen nach Auffassung der Behörde über den Offenbarungsgehalt in der ursprünglich eingereichten Fassung hinausgehen (Regel 70.2(c)).

(Auf Ersatzblätter, die solche Änderungen enthalten, ist unter Punkt 1 hinzuweisen;sie sind diesem Bericht beizufügen).

- 6. Etwaige zusätzliche Bemerkungen:
- V. Begründete Feststellung nach Artikel 35(2) hinsichtlich der Neuheit, der erfinderischen Tätigkeit und d r gewerblichen Anwendbarkeit; Unterlagen und Erklärungen zur Stützung dieser Feststellung
- 1. Feststellung

Neuheit (N) Ja: Ansprüche 2, 3, 5-7

Nein: Ansprüche 1, 4, 8, 9

Erfinderische Tätigkeit (ET) Ja: Ansprüche

Nein: Ansprüche 1-9

Gewerbliche Anwendbarkeit (GA) Ja: Ansprüche 1-9

Nein: Ansprüche

2. Unterlagen und Erklärungen siehe Beiblatt

INTERNATIONALER VORLÄUFIGER PRÜFUNGSBERICHT - BEIBLATT

zu Punkt V

Die v_rli_g_nd_ Erfindung

Die vorliegende Erfindung bezieht sich auf ein Verfahren zur Herstellung kratzfester Beschichtungen, welches folgende Schritte umfaßt

- (i) Aufbringen eines Beschichtungsmittels auf einen zu beschichtenden Gegenstand und
- (ii) Aushärten des beschichteten Gegenstands durch UV Bestrahlung unter einem sauerstoffhaltigen Schutzgas mit einem Sauerstoffpartialdruck von 0.2 18 kPa (2200 ppm 20 Vol%, siehe Seite 4, 2. Absatz der vorliegenden Anmeldung), wobei das Beschichtungsmittel wenigstens ein Polymer und/oder Oligomer mit im Mittel wenigstens einer ethylenisch ungesättigten Doppelbindung pro Molekül enthält.

Zitierte Dokumente

Es wird auf die folgenden Dokumente verwiesen:

D1: DATABASE WPI Week 8842 Derwent Publications Ltd., London, GB; AN 1988-295328 XP002157086 'Anticorrosion UV-curing resin coating on metallic base material' & JP 63 214375 A (SUMITOMO METAL), 7. September 1988 (1988-09-07)

D2: DE 29 28 512 A (RÖHM) 29. Januar 1981 (1981-01-29)

Neuheit (Artikel 33 (2) PCT)

D1 (Abstract) beschreibt die Herstellung von Beschichtungen auf metallischen Oberflächen. Das Verfahren umfaßt

- (i) das Aufbringen eines Beschichtungsmittels auf das zu beschichtende Substrat und
- (ii) das Aushärten der Beschichtung durch UV Strahlung unter Inertgasatmosphäre mit einer Sauerstoffkonzentration von bis zu 0.5 Vol%.

Das Beschichtungsmittel ist beispielsweise Polyurethan(meth)acrylat.

D1 ist somit neuheitsschädlich für den Gegenstand der Ansprüche 1, 4, 8 und 9.

Erfinderische Tätigkeit (Artikel 33(3) PCT)

D2 beschreibt ein Verfahren zur Herstellung einer kratzfesten Beschichtung, das folgende Schritte umfaßt:

(i) Aufbringen eines radikalisch polymerisierbaren Monomeren mit wenigstens zwei Doppelbindungen auf einen Formkörper und



(ii) Härten des beschichteten Körpers mit UV Strahlung in einer sauerstoffarmen Schutzgasatmosphäre (Ansprüche 1 und 10 aus D2).

Die vorliegende Erfindung unterscheidet sich somit von D2 lediglich dadurch, daß Oligomere oder Polymere auf den zu beschichtetenden Gegenstand als Beschichtungsmittel aufgetragen werden, während in D2 die entsprechenden Monomere, wie beispielsweise Trimethylolpropanacrylat (Seite 7, Zeile 11 - 12 aus D2) verwendet werden, die erst zum Zeitpunkt des Aushärtens polymerisieren.

Das in der vorliegenden Anmeldung zu lösende Problem ist das Bereitstellen kratzfester Beschichtungen. Dieses Problem wird jedoch bereits in D2 gelöst. Somit besteht das objektive Problem gegenüber D2 darin, alternative Beschichtungsmittel für den Beschichtungsprozeß bereitzustellen. Die in der vorliegenden Anmeldung gewählte Alternative ist jedoch bereits aus D1 bekannt, wo neben den in D2 genannten Monomeren Polymere mit Doppelbindungen als Beschichtungsmittel beschrieben werden. Die vorliegende Anmeldung ist daher nicht erfinderisch gegenüber D2 in Kombination mit D1.

PCT

INTERNATIONALER RECHERCHENBERICHT

(Artikel 18 sowie Regeln 43 und 44 PCT)

Aktenzeichen des Anmelders oder Anwalts		r die Übermittlung des internationalen (Formblatt PCT/ISA/220) sowie, soweit					
M/40229-PCT VORGEHEN zutreffend, nachstehender Punkt 5							
Internationales Aktenzeichen	Internationales Aktenzeichen Internationales Anmeldedatum (Frühestes) Prioritätsdatum (Tag/Monat/Jai (Tag/Monat/Jahr)						
PCT/EP 00/08284 24/08/2000 25/08/1999							
Anmelder							
BASF AKTIENGESELLSCHAFT							
Dieser internationale Recherchenbericht wurd Artikel 18 übermittelt. Eine Kopie wird dem Int	le von der Internationalen Recherchenbehörde ernationalen Büro übermittelt.	e erstellt und wird dem Anmelder gemäß					
Dieser internationale Recherchenbericht umfa X Darüber hinaus liegt ihm jev	aßt insgesamt <u>3</u> Blätter. veils eine Kopie der in diesem Bericht genanni	en Unterlagen zum Stand der Technik bei.					
Grundlage des Berichts							
	rnationale Recherche auf der Grundlage der ir ereicht wurde, sofern unter diesem Punkt nich						
Die internationale Recherch Anmeldung (Regel 23.1 b))		eingereichten Übersetzung der internationalen					
Recherche auf der Grundlage des S	n Anmeldung offenbarten Nucleotid- und/od jequenzprotokolls durchgeführt worden, das	er Aminosāuresequenz ist die internationale					
in der internationalen Anme	dung in Schriflicher Form enthalten ist.						
	zusammen mit der internationalen Anmeldung in computerlesbarer Form eingereicht worden ist.						
bei der Behörde nachträglich in schriftlicher Form eingereicht worden ist.							
bei der Behörde nachträglich in computerlesbarer Form eingereicht worden ist. Die Erklärung, daß das nachträglich eingereichte schriftliche Sequenzprotokoll nicht über den Offenbarungsgehalt der							
	nträglich eingereichte schriftliche Sequenzprot m Anmeldezeitpunkt hinausgeht, wurde vorge						
Die Erklärung, daß die in co wurde vorgelegt.	mputerlesbarer Form erfaßten Informationen o	dem schriftlichen Sequenzprotokoll entsprechen,					
2. Bestimmte Ansprüche hal	oen sich als nicht recherchierbar erwiesen	(siehe Feld I).					
3. Mangelnde Einheitlichkeit	der Erfindung (siehe Feld II).						
4. Hinsichtlich der Bezeichnung der Erfin	dung						
l <u> </u>	ereichte Wortlaut genehmigt.						
	Behörde wie folgt festgesetzt:						
_							
5. Hinsichtlich der Zusammenfassung							
wurde der Wortlaut nach Re Anmelder kann der Behörde	wird der vom Anmelder eingereichte Wortlaut genehmigt. wurde der Wortlaut nach Regel 38.2b) in der in Feld III angegebenen Fassung von der Behörde festgesetzt. Der Anmelder kann der Behörde innerhalb eines Monats nach dem Datum der Absendung dieses internationalen Recherchenberichts eine Stellungnahme vorlegen.						
6. Folgende Abbildung der Zeichnungen i	st mit der Zusammenfassung zu veröffentliche	n: Abb. Nr					
wie vom Anmelder vorgeschlagen keine der Abb.							
weil der Anmelder selbst keine Abbildung vorgeschlagen hat.							
weil diese Abbildung die Erfindung besser kennzeichnet.							

INTERNATIONALEMBERICHT

ationales Aktenzeichen PCT/EP 00/08284

a. klassifizierung des anmeldungsgegenstandes IPK 7 C09D175/16 B05D3/04

Nach der Intern: Lionalen Patentklassifikation (IPK) oder nach der nationalen Klassifikation und der IPK

B. RECHERCHIERTE GEBIETE

Recherchierter Mindestprüfstoff (Klassifikationssystem und Klassifikationssymbole) C09D B05D IPK 7 B01J

Recherchierte aber nicht zum Mindestprüfstoff gehörende Veröffentlichungen, soweit diese unter die recherchierten Gebiete fallen

Während der internationalen Recherche konsultierte elektronische Datenbank (Name der Datenbank und evtl. verwendete Suchbegriffe)

WPI Data, EPO-Internal, PAJ

C. ALS WESENTLICH ANGESEHENE UNTERLAG	ΞN
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Kategorie°	Bezeichnung der Veröffentlichung, soweit erforderlich unter Angabe der in Betracht kommenden Teile	Betr. Anspruch Nr.
Х	DE 29 28 512 A (RÖHM) 29. Januar 1981 (1981-01-29) Seite 2, Zeile 6 -Seite 6, Zeile 22; Ansprüche 1-10	1-7
Α	EP 0 490 472 A (ENERGY SCIENCES) 17. Juni 1992 (1992-06-17) Seite 1, Zeile 1 -Seite 2, Zeile 21 Seite 3, Zeile 17 - Zeile 36 Seite 5, Zeile 38 - Zeile 44; Ansprüche 1,4	1
Α	US 4 118 873 A (ROTHCHILD) 10. Oktober 1978 (1978-10-10) Spalte 1, Zeile 25 -Spalte 2, Zeile 9 Spalte 3, Zeile 18 - Zeile 65 Spalte 5, Zeile 50 - Zeile 58; Ansprüche 1,4	1

Weitere Veröffentlichungen sind der Fortsetzung von Feld C zu

Siehe Anhang Patentfamilie

- ° Besondere Kategorien von angegebenen Veröffentlichungen
- 'A' Veröffentlichung, die den allgemeinen Stand der Technik definiert, aber nicht als besonders bedeutsam anzusehen ist
- *E* ätteres Dokument, das jedoch erst am oder nach dem internationalen Anmeldedatum veröffentlicht worden ist
- Veröffentlichung, die geeignet ist, einen Prioritätsanspruch zweifelhaft erscheinen zu lassen, oder durch die das Veröffentlichungsdatum einer anderen im Recherchenbericht genannten Veröffentlichung belegt werden soll oder die aus einem anderen besonderen Grund angegeben ist (wie ausgeführt)
- Veröffentlichung, die sich auf eine mündliche Offenbarung,
- eine Benutzung, eine Ausstellung oder andere Maßnahmen bezieht 'P' Veröffentlichung, die vor dem internationalen Anmeldedatum, aber nach dem beanspruchten Prioritätsdatum veröffentlicht worden ist
- 'T' Spätere Veröffentlichung, die nach dem internationalen Anmeldedatum oder dem Prioritätsdatum veröffentlicht worden ist und mit der Anmeldung nicht kollidiert, sondern nur zum Verständnis des der Erfindung zugrundeliegenden Prinzips oder der ihr zugrundeliegenden Theorie angegeben ist
- Veröffentlichung von besonderer Bedeutung; die beanspruchte Erfindung kann allein aufgrund dieser Veröffentlichung nicht als neu oder auf erfinderischer Tätigkeit beruhend betrachtet werden
- Veröffentlichung von besonderer Bedeutung; die beanspruchte Erfindung kann nicht als auf erfinderischer Tätigkeit beruhend betrachtet werden, wenn die Veröffentlichung mit einer oder mehreren anderen Veröffentlichungen dieser Kategorie in Verbindung gebracht wird und diese Verbindung für einen Fachmann naheliegend ist
- "&" Veröffentlichung, die Mitglied derselben Patentfamilie ist Absendedatum des internationalen Recherchenberichts

Datum des Abschlusses der internationalen Recherche

12. Januar 2001

Name und Postanschrift der Internationalen Recherchenbehörde Europäisches Patentamt, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

23/01/2001

Bevollmächtigter Bediensteter

Bourgonje, A

1



ationales Aktenzeichen
PCT/EP 00/08284

	ung) ALS WESENTLICH ANGESEHENE UNTERLAGEN	
Kategorie°	"Bezeichnung der Veröffentlichung, soweit erforderlich unter Angabe der in Betracht komm 	enden Teile Betr. Anspruch Nr.
A	EP 0 330 705 A (LINDE) 6. September 1989 (1989-09-06) Seite 2, Zeile 10 -Seite 3, Zeile 13; Ansprüche 1-7	1
A	DATABASE WPI Week 8842 Derwent Publications Ltd., London, GB; AN 1988-295328 XP002157086 "Anticorrosion UV-curing resin coating on metallic base material" & JP 63 214375 A (SUMITOMO METAL), 7. September 1988 (1988-09-07) Zusammenfassung	1,4
	Zusamment assung	

1

INTERNATIONAL SEARCH REPORT Internation on patent family members

ational Application No PCT/EP 00/08284

Patent document cited in search repor	-t	Publication date	Patent family member(s)	Publication date
DE 2928512	Α	29-01-1981	JP 1511005 C JP 56022330 A JP 63064458 B	09-08-1989 02-03-1981 12-12-1988
EP 490472	A	17-06-1992	US 5120972 A AT 136392 T AU 647513 B AU 8266391 A CA 2052832 A DE 69118490 D DE 69118490 T JP 3042922 B JP 5309311 A	09-06-1992 15-04-1996 24-03-1994 18-06-1992 12-06-1992 09-05-1996 24-10-1996 22-05-2000 22-11-1993
US 4118873	Α	10-10-1978	NONE	
EP 330705	Α	06-09-1989	AT 73387 T DE 3869121 D ES 2030778 T	15-03-1992 16-04-1992 16-11-1992
JP 63214375	Α	07-09-1988	NONE	

(19) Weltorganisation für geistiges Eigentum Internationales Büro



(43) Internationales Veröffentlichungsdatum
1. März 2001 (01.03.2001)

PCT

(10) Internationale Veröffentlichungsnummer WO 01/14483 A1

(51) Internationale Patentklassifikation⁷: C09D 175/16, B05D 3/04

Talweide 12, 67251 Freinsheim (DE). KRANWETVO-GEL, Reiner [DE/DE]; Neustadter Strasse 38, 67454 Hassloch (DE).

Kinzebach & Partner, Sternwartstrasse 4, 81679 München

(21) Internationales Aktenzeichen:

PCT/EP00/08284

(22) Internationales Anmeldedatum:

24. August 2000 (24.08.2000)

s Anmeidedatum:

Deutsch

(25) Einreichungssprache:

(26) Veröffentlichungssprache:

Deutsch

(30) Angaben zur Priorität:

199 40 312.0

25. August 1999 (25.08.1999) DE

(71) Anmelder (für alle Bestimmungsstaaten mit Ausnahme von US): BASF AKTIENGESELLSCHAFT [DE/DE]; 67056 Ludwigshafen (DE).

(72) Erfinder; und

(75) Erfinder/Anmelder (nur für US): JAWOREK, Thomas [DE/DE]; Neugasse 41, 67169 Kallstadt (DE). SCHWALM, Reinhold [DE/DE]; Am Hüttenwingert 6, 67157 Wachenheim (DE). KÖNIGER, Rainer [DE/DE];

Hassloch (DE).

(74) Anwälte: KINZEBACH, Werner usw.; Reitstötter,

(81) Bestimmungsstaaten (national): BR, CA, CN, JP, KR, US.

(84) Bestimmungsstaaten (regional): europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Veröffentlicht:

- Mit internationalem Recherchenbericht.
- Vor Ablauf der für Änderungen der Ansprüche geltenden Frist; Veröffentlichung wird wiederholt, falls Änderungen eintreffen.

Zur Erklärung der Zweibuchstaben-Codes, und der anderen Abkürzungen wird auf die Erklärungen ("Guidance Notes on Codes and Abbreviations") am Anfang jeder regulären Ausgabe der PCT-Gazette verwiesen.

(54) Title: METHOD FOR PRODUCING SCRATCH-RESISTANT COATINGS

(54) Bezeichnerg: VERUMMREN ZUR HERSTELLUNG KRATZFESTER BESCHICHTUNGEN

(57) Abstract: The invention relates to a method for producing scratch-resistant coatings. The inventive method comprises the following steps: applying at least one coating means that can be hardened by UV radiation to at least one surface of an object to be coated, whereby the coating means comprises at least one polymer and/or oligomer P1 with, on average, at least one ethylenically unsaturated double bond per molecule, hardening the coating means under the influence of UV radiation. The inventive method is characterised in that the coating means is hardened in an oxygen-containing protective gas which is provided with an oxygen partial pressure ranging from 0.2 to 18 kPa.

(57) Zusammenfassung: Die Erfindung betrifft ein Verfahren zur Herstellung kratzfester Beschichtungen, umfassend die folgenden Schritte: Aufbringen wenigstens eines durch UV-Strahlung härtbaren Beschichtungsmittels auf wenigstens eine Oberfläche eines zu beschichtenden Gegenstands, wobei das Beschichtungsmittel wenigstens ein Polymer und/oder Oligomer P1 mit im Mittel wenigstens einer ethylenisch ungesättigten Doppelbindung pro Molekül umfasst; Aushärten des Beschichtungmittels durch Einwirkung von UV-Strahlung, das dadurch gekennzeichnet ist, dass man das Aushärten des Beschichtungsmittels unter einem sauerstoffhaltigen Schutzgas durchführt, das einen Sauerstoffpartialdruck im Bereich von 0,2 bis 18 kPa aufweist.

